Space Flight Systems Directorate

List of Acronyms

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

-A-

AA Associate Administrator

ACME Advanced Combustion Microgravity Experiment

ACUC Animal Care and Use Committee
ACWP Actual Cost of Work Performed
ADAS Ambulatory Data Acquisition System
ADM Acquisition Decision Memorandum

AEMC Advanced Environmental Monitoring and Control, GFM-2

AEE Advanced Engineering Environment
AER Advanced Exploration Research
AES Anthropometric EVA Suit
AEVA Advanced Extra Vehicular Activity
AFT Advanced Food Technology
AHLS Advanced Human Life Support
AHLS Advanced Human Life Support

AHST Advanced Human Support Technologies

AIM Advanced Integrated Matrix

AL Air Lock

ALP Advanced Liquid Pumps ALS Advanced Life Support Announcement of Opportunity ΑO AoA Analysis of Alternatives AOA Annual Operating Agreement Acceleration Projects AΡ APB Accounting Principles Board Acquisition Program Baseline APB

APG Annual Performance Goal
APMC Agency Program Management Council
APPL Academy of Program and Project Leadership
APSSP Advanced Propulsion Systems and Space Power

APSSP Advanced Propulsion Systems and Space Power
AR Air Revitalization
ARC Ames Research Center

ARD Aeronautics Research Mission Directorate
ARED Advanced Resistive Exercise Device
ARIS Active Rack Isolation System

ARM Active Risk Manager

ARMD Aeronautics Research Mission Directorate

ARR Assemble, Test, and Launch Operations (ATLO) Readiness Review

ARS Air Revitalization System

AS Ascent Stage AS Acquisition Strategy

ASBCA Armed Services Board of Contract Appeals

ASI Agency Safety Initiative

ASIC Application-Specific Integrated Circuit
ATD Advanced Technology Development

ATHINA Investigation of Diffusion Flame Tip Thermo-diffusive and Hydrodynamic Instability Under

Microgravity Conditions
ATP Authority to Proceed

ATP Authority to Proceed
ATP Acceptance Test Plan

BAA Broad Area Announcement
BAC Budget at Completion
BCAT Binary Colloidal Alloy Test
BCAT-3 Binary Colloidal Alloy Test - 3
BCAT-4 Binary Colloidal Alloy Test - 4

BCDCE Bi-Component Droplet Combustion Experiment

BCOEL Boiling Heat Transfer & Control of Bubble Motion in Microgravity using Electric Fields

BCPR Bioastronautics Critical Path Roadmap BCWP Budgeted Cost for Work Performed

BDiSL Buoyancy Driven Instabilities in Single Bubble Sonoluminescence

BH Big Habitat

BMP Biomass Production BOE Basis-of-Estimate

BPRAC Biological and Physical Research Advisory Committee

BPRR Biological and Physical Research Rack

BVX Bulk Viscosity of Xenon BXF Boiling Experiment Facility

BY Budget Year

C4ISP Command, Control, Communications, Computers and Information Systems Protection

CAD Cost Analysis Division CAD Computer Aided Design

CADRe Cost Analysis Data Requirement

CAI Communications, Avionics, and Informatics CAIB Columbia Accident Investigation Board CAIG Cost Analysis Improvement Group CAIV Cost as an Independent Variable CARD Cost Analysis Requirements Document

CBE Current Best Estimate CCA Clinger-Cohen Act

CCB Configuration Control Board CCF The Cleveland Clinic Foundation

CCF Critical Velocities in Open Capillary Channels

CCR Central Contractor Registry

CCRM Continuous Cost Risk Management CDD Capability Development Document

CDOT Colloidal Disorder-Order Transitions Experiment

Critical Design Review CDR

CDRL Contrac Data Requirements List

Cargo Delivery System CDS

CE&R Concept Exploration and Refinement CECE Common Extensible Cryogenic Engine CERR Critical Events Readiness Review

CEV Crew Exploration Vehicle

CEVIS Cycle Ergometer with Vibration Isolation System Crew Exploration Vehicle Launch Segment **CEVLS**

CFE Capillary Flow Experiment CFM-2 Candle Flames in Microgravity

CFO Chief Financial Officer

Center of Gravity CG

CGBA Commercial Generic Bioprocessing Apparatus **CHAINS** CHain Aggregation INvestigation by Scattering CHESS Condensing Heat Exchanger for Space Systems

Counter-Intelligence CI

CIBS Coalescence Inhibition of Bubbly Suspensions Experiment

CIO Chief Information Office CIR Combustion Integrated Rack

Field Effects of Gravity on Lean Premixed Turbulent Flames Clean-Flame

CLiDE Contact Line Dynamics Experiment

CLV Crew Launch Vehicle CM-2 Combustion Module - 2 Critical Mission Task CMT COFC Court of Federal Claims Certification of Flight Readiness CoFR

COLLIDE-2 Collisions into Dust Experiment - 2

Con Ops Concept of Operations

Contracting Officer Technical Representative COTR

COTS Commercial-Off-the-Shelf CP-2L CVB/PHaSE-2/PCS-2/LFCA **CPAF** Cost Plus Award Fee

CPAF/IF Cost Plus Award Fee / Incentive Fee CPD Capability Production Document

CPFF Cost Plus Fixed Fee CPI Cost Performance Index

CPI/SPI Cost Performance Index / Schedule Performance Indicator

CPIF Cost Plus Incentive Fee CPM Critical Path Method CR Change Request

CRA Continuing Resolution Authority CRL Countermeasure Readiness Levels CRM Continuous Risk Management CRR Crew Readiness Review

CRT Contingency Response Technologies

Containerless Ripple Wave Turbulence Experiment CRWT

CSI Crop System Interface CSLM-2

Coarsening of Solid-Liquid Mixtures-2 Cost Variance Constrained Vapor Bubble Experiment, LMM-1 Critical Viscosity of Xenon-2 Calendar Year CV CVB

CVX-2 CY

DA Digital Astronaut

DAA Deputy Associate Administrator

DAFT Dust and Aerosol measurement Feasibility Test

DAR Defense Acquisition Regulation
DAU Defense Acquisition University

DCAM Dynamic Contact Angle Measurement Experiment

DCE-2 Droplet Combustion Experiment
DCMA Defense Contract Management Agency

DCR Design Concept Review

DDCE Dynamics of Droplet Combustion and Extinction Experiment
DECLIC Dispositif pour l'etude de la croissance et des liquides critiques

DFRC Dryden Flight Research Center

DID

DLS Daily Load Stimulus
DMB Data Management Board

DO Delivery Order

DoD U.S. Department of Defense
DoS U.S. Department of State
DRD Data Requirement Delivery
DRD Data Requirements Document
DRFP Draft Request for Proposal
DRM Design Reference Mission

DS Descent Stage
DSN Deep Space Network

DSO

DSS Destination Surface Stage

DT-IAM Diagnostic Technologies – Integrated Autonomous Medicine

EAC Evolutionary Acquisition EAC Estimate at Completion

EAR Export Administration Regulations

EC Embedded Controller

ECL Exercise Countermeasures Laboratory

ECLSS Environmental Control and Life Support System

ECP Export Control Program

ECP Exercise Countermeasures Project

EDCA Entropically Driven Colloidal Assembly Experiment

EDL Entry Descent and Landing EDS Earth Departure Stage

EGM Electrostatics of Granular Materials Experiment

EHR Exploration Human Research

EI Entry Interface

ELM Enhanced Light Microscope ELV Expendable Launch Vehicle

EMO Environmental Management Office EMS Environmental Management System

EO Earth Orbit

ER# EXPRESS Rack number

ERE Extensional Rheology Experiment

ES Earth Surface

ESA European Space Agency
ESC Evaporative Spray Cooling
ESD Exploration Systems Division
ESM Equivalent System Mass

ESMD PARL Exploration Systems Mission Directorate
ESMD PARL ESMD Performance Assessment Report Lead

ESMD PPL ESMD Performance Planning Lead

ESMD SAMP ESMD Single Acquisition Management Plan

ESMD SEMP ESMD Theme Systems Engineering Management Plan ESR&T Exploration Systems Research & Technology Division

ESS Exploration System of Systems

ETC Estimate to Completion

ETO Earth to Orbit EV Earned Value EV Entry Vehicle

EVA Extra Vehicular Activity
EVM Earned Value Management
EVMS Earned Value Management System

EXMC Exploration Medical Capability and Digital Astronaut

EXPRESS Expedite the Process of Experiments to the Space Station Rack

eZLS Enhanced Zero-g Locomotion Simulator

FAD Formulation Authorization Document FAR Federal Acquisition Regulations FCA Functional Configuration Audit FCF Fluids and Combustion Facility FDS Functional Discipline Specialist

FEANICS Flow Enclosure Accommodating Novel Investigations in Combustion of Solids

FFP Firm Fixed Price

FFRDC Federally Funded Research and Development Center

FHA Flight Hardware Availability
FIR Fluids Integrated Rack

FIST Flammability Diagrams of Combustible Materials in Microgravity

FLEX FLame Extinguishment eXperiment

Flt Platform Flight 4.1.2

FMEA/CIL Failure Mode Effects Analysis / Critical Item List

FMS Food Management System

FO Forward Osmosis

FOAM Foam Optics and Mechanics Experiment

FOC Full Operational Capability
FOIA Freedom of Information Act

FOM Figure-of-Merit

FOOT Lower Extremity Monitoring Suit ISS Experiment

FPAF Fixed Price Award Fee

FPC Food Preparation Capabilities

FPDS Fire Prevention, Detection, and Suppression

FPI Fixed Price Incentive

FPSR Fluid Physics Strategic Research

FRR Flight Readiness Review FSL Fluid Science Laboratory (ESA)

FunRes Fundamental Research

FY Fiscal Year

G&A General and Administrative
GAO General Accounting Office
GCR Galactic Cosmic Ray
GEL Gravity Effects in Lyophilization

GEL Gravity Effects in Lyophilization
GERT Graphical Evaluation Review Technique
GFE Government Furnished Equipment

GFM Granular Flow Module

GGM Gravity and Granular Materials, GFM-3

GMSF Growth and Morphology of Supercritical Fluids Experiment

GN&C Guidance, Navigation and Control GOTS Government-Off-The-Shelf GPD Gate Product Deliverable

GPMC Governing Program Management Council
GPRA Government Performance and Results Act
GRADFLEX Gradient Driven Fluctuations Experiment

GRC Glenn Research Center GSS Ground Support System GTP Gas Tolerant Pump

GLIDE Global Integrated Design Environment

Historically Black Colleges and Universities Head of Contracting Activity HBCU

HCA Human Capitol Liaison Hardware Concept Review HCL HCR

HIPPA Hip Investigator for Protecting Astronaut Anatomy

HQ

Headquarters
Human Resources Information System
Human Support Research Technology
Historically Underutilized Business HRIS HSR&T HUB

IA Independent Assessment

IAO International Announcement of Opportunity
IBPD Integrated Budget and Performance Document

IBR Integrated Baseline Reviews
ICA Independent Cost Assessment
ICAT Independent Cost Assessment Team

ICD Interface Control Document ICE Independent Cost Estimate

ICE Interface Configuration Experiment

ICP Intramural Call for Proposal ICR Initial Confirmation Review

ICR Investigation Continuation Review

ID Incremental Development

IEEE/EIA Institute of Electrical and Electronics Engineers / Electronic Industries Association

IFB Invitation for Bid

IGA Inter-Governmental Agreement

IGCE Independent Government Cost Estimate

ILS Integrated Logistics Support IMS Integrated Master Schedule

InSPACE Investigating the Structure of Paramagnetic Aggregates from Colloidal InSPACE-2 Investigating the Structure of Paramagnetic Aggregates from Colloidal - 2

INSTEP In-Space Technology Experiments Program

IOC Initial Operational Capability
IPA Independent Program Assessment
IPAO Independent Program Assessment Office
IPAT Independent Program Assessment Team

IPO Institutional Program Office
IPP Innovative Partnerships Program
IPS Integrated Program Summary
IPT Integrated Product Team

IRB

IRD Interface Requirements Document IRED Interim Resistive Exercise Device

IRR Interim Research Review
IS3 In-Space Support System
ISFR In-Situ Fabrication and Repair
ISLSP In-Situ Life Support Processes

ISO International Organization for Standardization

ISRU In-Situ Resource Utilization ISS International Space Station IT Information Technology

ITA Independent Technical Authority

ITAR International Traffic in Arms Regulations

IVA

IVGEN Intra Venous Water GENeration

IV&V Independent Verification and Validation

JIMO Jupiter Icy Moon Orbiter JPL Jet Propulsion Lab JSC Johnson Space Center KA KDP KPP KSC

Key Activities Key Decision Point Key Performance Parameters Kennedy Space Center

LaRC Langley Research Center

LAWG Lunar Architecture Working Group

LCC Life Cycle Cost L/D Lift/Drag coefficient LEO Low Earth Orbit

LEPAG Lunar Exploration Program Working Group LExSWG Lunar Exploration Science Working Group

LFCA Low Volume Fraction Colloidal Assemblies Experiment, LMM-4

LF-X Logistics Flight LH2 Liquid Hydrogen

LFCA Low Volume Fraction Colloidal Assemblies Experiment, LMM-4

LLO Low-Lunar Orbit
LO Lunar Orbit
LOA Letter of Agreement
LOC Lunar Orbit Capture
LOE Level of Effort
LOM Loss of Mission
LOX Liquid OXygen

LME Liquid Management Experiment
LMM Light Microscopy Module
LMS Lunar Mission Scenario
LRIP Low-Rate Initial Production
LRL Lunar Robotic Lander
LRO Lunar Robotic Orbiter
LRR Launch Readiness Review

LS Lunar Surface

LSAM Lunar Surface Access Module
LSH Life Support and Habitation
LSI Landed Surface Interrogator

LSP Laminar Soot Process

LSPG Life Support Power Generation System

L₁ Libration point 1 (Earth-Moon)

M&S Modeling and Simulation

MABE Microheater Array Boiling Experiment

MAMS Microgravity Acceleration Measurement System

MCDL Master Controlled Documents List MDA Milestone Decision Authority

MDCA Multi-user Droplet Combustion Apparatus

MDIP Mission System Development Implementation Plan

MEL Microgravity Environment Lab

MEPAG Mars Exploration Program Analysis Group

MFS Multiphase Flow Separators
MFT Multiphase Flow Technology
MGFA Multi-user Gaseous Fuels Apparatus

MGI MICROSCALE Glovebox Investigation Experiment MGM-III Mechanics of Granular Materials Experiment - III

MI Minority Institutions

MIDAS Miscible Interface Dynamics and Simulation Experiment

MIST Water Mist Fire Suppression Experiment
MIUL Material Identification Usage List
MMOD Micro-Meteoroid and Orbital Debris
MOA Memorandum of Agreement

MOBI Microgravity Observations of Bubble Interaction Experiment

MOMM Microscopy and Optical Manipulation Module

MOTS Modified-Off-The-Shelf

MOU Memorandum of Understanding

MRDOC Microgravity Research, Development and Operations Contract

MRR Mission Readiness Review

MS Milestone

MSD Microgravity Science Division
MSD Mission System Development
MSFC Marshall Space Flight Center
MSG Microgravity Science Glovebox

μMRF Micromechanics of Magnetorheological Fluids, LMM-5

µgSEG Particle Segregation in Collisional Sheering Flows Experiment, GFM-1
µSCALE Microscale Hydrodynamics Near Moving Contact Lines Experiment

µSiGMA Micro Solids Interacting with Gas in a Microgravity Apparatus Experiment, GFM-2

N/A Not Applicable

NAC NASA Advisory Committee NAR Non-Advocate Review

NASA National Aeronautics and Space Administration

NBX

NCMR National Center for Microgravity Research (see NCSER)

NCRP National Council on Radiation Protection

NCSER National Center for Space Exploration Research (formerly NCMR)

NDI Non-Developmental Items

NEDD Natural Environments Definition for Design

NEP Nuclear Electric Propulsion
NEPA National Environmental Policy Act
NESC NASA Engineering and Safety Center

NFS NASA FAR Supplement

NGIT Northrop Grumman, Information Technologies (MRDOC)

NIST National Institute of Standards & Technology

NLSA Nuclear Launch Safety Approval

NODIS NASA Online Directives Information System

NP NASA Publication

NPD NASA Policy Directive NPD NASA Policy Documents

NPR NASA Procedural Requirement (Document)

NRA NASA Research Announcement NRC National Research Council

NSBRI

NSRS NASA Safety Reporting System
NSSA National Security Space Acquisition
NT&D Nuclear Technology and Demonstrations

NTR Nuclear Thermal Rocket NWR Not Worth Reporting OAG Operations Advisory Group

Observation and Analysis of Smetic Islands in Space, LMM-7 OASIS

OCE

Office of the Chief Engineer
Office of the Chief Health and Medical Officer OCHMO

Over guide-line OG Orbital Module ОМ

OMB Office of Management and Budget

Objectives and Requirements Definition Team Operations Readiness Review ORDT

ORR ORU Orbital Replacement Unit

Office of the Secretary of Defense Office of Safety and Mission Assurance OSD OSMA

OSP Orbital Space Plane OV Operational View

PA&E Program Analysis and Evaluation

PAPAC Provide Aerospace Products and Capabilities PAR Performance and Accountability Report

PaRIS

PARL Performance and Accountability Reporting Lead

PART Program Assessment Rating Tool

PAS Passive and Active Gas-Liquid Separator Devices

PASEP Passive and Active Phase Separators

PASLB Passive Acoustic Stabilization of Liquid Bridges Experiment

PBM-1 Pool Boiling Module-1

PBMA Process Based Mission Assurance
PBRE Packed Bed Reactor Experiment
PBS President's Budget Submission
PBS Product Breakdown Structure

PC PCA Plane Change Program Commitment Agreement PCAD Propulsion and Cryogenic Advanced Development

PCB Program / Project Control Board PCE Particulate Control Experiment

PCS Physics of Colloids in Space Experiment, LMM-3
PCS+ Physics of Colloids in Space Experiment Plus
PCS-2 Physics of Colloids in Space Experiment-2

PCS-3 Physics of Colloids in Space-3
PDE Pulsed Thermal Loop Demo
PDR Preliminary Design Review
PDS Planetary Data System

PERT Program Evaluation Review Technique

PESHE Programmatic Environmental, Safety, and Occupational Health Evaluation

PFM Photo-Flight Model

PHaSE-2 Physics of Hard Spheres Experiment-2, LMM-2

PI Principal Investigator

PIDS Principal Investigator Data Service

PIMS Principal Investigator Microgravity Services

PKE Plasma Krystal Experiment
PLAR Post-Launch Assessment Review
PMA President's Management Agenda
PMB Performance Measurement Baseline
PMC Program management Council

PMDP Project Management Development Process

PMF Propellant Mass Fraction
PMH Program Manger's Handbook
PNAR Preliminary Non-Advocate Review

POC Point of Contact

POP Program Operating Plan
PPL Performance Planning Lead
PRACA Preventive and Corrective Action
PRA Probabilistic Risk Assessments

PRD

P-SLD Pneumatic Subject Load Device

PSR Pre-Ship Review

PSRP Payload Safety Review Panel

PSTR Pre-Storage Review
PStR Pre-Storage Review
PV Process Verification
PWP Primary Water Processor

PY Program Tear

QA Quality Assurance QFD Quality Function Deployment R&T Research and Technology

R&TD Research and Technology Development

Research Concept Review Requirements Definition Review RCR **RDR** RED Resistive Exercise Device

REEFS Radiative Enhancement Effects on Flame Spread

RFI Request for Information Request for Proposal **RFP** Request for Quote RFQ

RGF,GFM-4 Regimes of Granular Flow Review Item Discrepancy RID

Robotic Lunar Exploration Program **RLEP**

RMB Risk Management Board

RMSAG Risk and Mission Success Advisory Group

RO RP-1

Rocket Propellant 1 RPS Robotic Precursor System

Research and Technology Implementation Plan RTIP

Research Team Member RTM

RTSAD Risk Tool Suite for Advanced Design

RWGS Reverse Water Gas Shift S&MA Safety and Mission Assurance

S/C Spacecraft

SAME Smoke Aerosol Measurement Experiment SAMP Single Acquisition Management Plan

SAPIAD Space Science Pending International Agreement Database

SAMS Space Acceleration Measurement System

SAR Shared Accommodations Rack SBA Simulation Based Acquisition **SBIR** Small Business Innovative Research Soft Condensed Matter Physics **SCMP** SCR Science Concept Review SCWO Super Critical Water Oxidation SDL Structural Dynamics Laboratory SDR System Design Review **SDTO** Science Detailed Test Objective

SDVOSB Service Disabled Veteran Owned Small Businesses

SE Systems Engineer

SE&I Systems Engineering and Integration

SEB Source Evaluation Board

SEDC Sooting and Radiation Effects in Droplet Combustion Experiment

SEMP Systems Engineering Management Plan SEP Gas-liquid Separator Experiment SEP Liquid-Gas Separator Experiment

SEP Solar Proton Event

SESCDP Senior Executive Service Candidate Development Program
S-FLAME Structure and Response of Spherical Diffusion Flames
SHERE Shear History Extensional Rheology Experiment
SIBAL Solid Inflammability Boundary at Low-Speed

SICD Spiral Initial Capabilities Document

SiGMA Gas-Particle Interactions in a Microgravity Flow Cell

SLB Stabilization of Liquid Bridges SLD Subject Load Device

SMA Safety and Mission Assurance

SMARR Safety and Mission Assurance Readiness Review

SMARTS Safety and Mission Assurance Requirements Tracking System

SMD Science Mission Directorate SMO System Management Office

Smoke Characterization of Smoke Particulate for Spacecraft Fire Detection

SOFBALL Structure of Flame Balls at Low Lewis-numbers

SOLAR Site for Online Learning and Resources SOMD Space Operations Mission Directorate

SOW Statement of Work

SPAWG Space Communications Analysis Working Group

SPE Solar Particle Event

SPICE Smoke Points in Co-flow Experiment SRD Systems Requirements Documents

SRFE Smart Fluid Rheology

SRM&QA Safety, Reliability, Maintainability and Quality Assurance

SRR System Requirements Review

SS Systems-of-Systems

SSAA System Security Authorization Agreement

SSAS Space System Acquisition Strategy

SSC Stennis Space Center

SSPIAD Space Science Pending International Agreements Database

SSTAC Space Science and Technology Advisory Committee

STD Standard (Document)

STES Single-locker Thermal Enclosure System

STTP Strategy to Task to Technology Process (or Panel)

STTR Small Business Technology Transfer

SV Schedule Variance SV System View

SWMS Solid Waste Management System

T&E Test & Evaluation
T Tank (NTR staging tank)
T2 Second ISS Treadmill
TBD To Be Decided

TBD To Be Determined
TBR To Be Resolved
TC Thermal Control

TCPI To Complete Performance Index

TDRSS Tracking and Data Relay Satellite System

TEI Trans-Earth Injection

TEMP Test and Evaluation Management Plan

TEMP Test and Evaluation Master Plan

TIGER-3D Transition from Ignition to Flame Growth under External Radiation in Three Dimensions

TIM Technical Interchange Meetings

TLI Trans-Lunar Injection T_FFy Two-Phase Flow Facility

TO Trade Option

TOC Total Ownership Cost
TPFE Two-Phase Flow Experiment
TPHT Two-Phase Heat Transfer

TPM Technical Performance Measurement

TPM ALS Two-Phase Modeling
TPS Thermal Protection System
TRL Technology Readiness Level
TRP Transition Research Projects

TS Thermal Systems TV Technical View

TVIS Treadmill with Vibration Isolation and Stabilization

TVR Test and Verification Review TWH Technical Warrant Holders

UF-X UMMC

Utility/Utilization Flight
University of Mississippi Medical Center
Unique Project Number
Uniform Resource Locator
University of Texas Medical Branch
Ultraviolet-Visible-Infrared Spectrophotometer UPN URL

UTMB

UVIS

Variance Analysis Report Vapor Compression Distillation Value Engineering Veteran-Owned Small Business Vapor Phase Catalytic Ammonia Reactor VAR VCD

VE VOSB VPCAR

WBS Work Breakdown Structure WCD Workforce Competency Dictionary

WFI

Water for Injection
Water Offset Nutrient Delivery Experiment
Woman Owned Small Businesses WONDER

WOSB

Water Processor Water Reclamation WP WR WRS Water Recovery System -X-

XML

-Y-

-Z-

ZBOT ZBR ZGF ZIN Zero Boil-Off Tank Project Zero Base Review Zero Gravity Facility ZIN Technologies